
Nomenclatural Notes on the Boraginaceae of China

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ABSTRACT. Three new combinations, *Tournefortia sibirica* L. var. *angustior* (A. DC.) G. L. Chu & M. G. Gilbert, *Lappula ferganensis* (Popov) Kamelin & G. L. Chu, and *L. lasiocarpa* (W. T. Wang) Kamelin & G. L. Chu, plus a new name, *Trigonotis harrismithii* R. R. Mill, are validated.

Two precursory papers on the Boraginaceae for the *Flora of China* have already been published (Kamelin, 1993; Riedl, 1994). The following additional nomenclatural adjustments are herein proposed to make the names available for the forthcoming Volume 16 of the *Flora of China*.

***Tournefortia sibirica* L. var. *angustior* (A. DC.)**
G. L. Chu & M. G. Gilbert, comb. nov. Basionym: *Tournefortia arguzia* Roemer & Schultes β *angustior* A. DC., Prodr. 9: 514. 1845. SYNTYPES: China. Nei Mongol ("Chinese Mongolia"), *Turczaninow s.n.*, *Bunge s.n.*; Kazakhstan. E shore of Caspian Sea, *Karelin s.n.* and *Hohenacker s.n.*; Russia. Astrakan, *Bieberstein s.n.*; Turkey ("Asia Minor"), *Aucher-Éloy s.n.*; Ukraine. S Podoliâ, *Turczaninow s.n.* (All syntypes in G, not seen.)

The new combination is needed because the variety does not have a valid combination in *Tournefortia sibirica*. A lectotype should be designated from de Candolle's original material at G. Such material has not been examined by us.

***Trigonotis harrismithii* R. R. Mill, nom. nov.**
Replaced name: *Trigonotis smithii* W. T. Wang, Bull. Bot. Res., Harbin 13(1): 3. 1993, not *Trigonotis smithii* Banerjee, Bull. Bot. Surv. India 8: 325. 1966 (1967). TYPE: China. Sichuan: Sungpan, 3200 m, 14 July 1922, *Harry Smith 2775* (holotype, UPS; isotype, PE).

The earlier name *Trigonotis smithii* Banerjee, which applies to a species from Bhutan and the east Himalaya so far not recorded from China, was named after William Wright Smith, the collector of the type specimen and a former Regius Keeper of the Royal Botanic Garden, Edinburgh. The later homonym was dedicated to the Swedish botanist Harry Smith, an expert on the Gentianaceae who collected in China.

There has been a reappraisal of the characters dividing *Lepechiniella* from *Lappula*. *Lappula* is readily distinguished from *Lepechiniella* in having styles exerted from the nutlets instead of concealed by them. No Chinese material belongs to *Lepechiniella* as thus defined, which makes necessary the following generic transfers.

***Lappula ferganensis* (Popov) Kamelin & G. L. Chu, comb. nov.** Basionym: *Lepechiniella ferganensis* Popov, Fl. USSR 19: 715. 1953. TYPE: [Tajikistan]. Alai Valley, Mount Kultzcha, 26 June 1931, *Lipschitz 248* (holotype, MW).

Lappula platyptera C. J. Wang, Bull. Bot. Res., Harbin 1(4): 91. 1981. Syn. nov. TYPE: China. Xinjiang: Wuqia Xian, 3300 m, 4 Aug. 1978, *Xinjiang Expedition 1911* (holotype, WUK).

Lappula lasiocarpa (W. T. Wang) Kamelin & G. L. Chu, comb. nov. Basionym: *Lepechiniella lasiocarpa* W. T. Wang, Bull. Bot. Res., Harbin 4(2): 7. 1984. TYPE: China. Xinjiang: Fuhai, 21 May 1959, *Y. F. Wang s.n.* (holotype, PE).

Lepechiniella balchaschensis M. Popov, Spisok. Rast. Gerb. Fl. SSSR 12: 50. 1953. Syn. nov. *Lappula betpakdalensis* Nabiev, Opred. Rast. Sred. Azü 8: 138. 1986, not *Lappula balchaschensis* M. Popov ex N. Pavl., Zhurn. Bot. U.R.S.S. 30(4): 190. 1945. TYPE: Kazakhstan. Lake Balchasch, southern shore at Bertys Bay, 15 June 1934, *M. Popov s.n.* (holotype, LE).

Lepechiniella balchaschensis is the oldest name for this species, but the epithet is not available in *Lappula* because Popov had already described *Lappula balchaschensis* based on a different type. The transfer to *Lappula* was made in 1986 by Nabiev, who introduced the replacement epithet *betpakdalensis*. However, *Lepechiniella lasiocarpa* W. T. Wang is the older name that should be used in *Lappula*.

Literature Cited

- Kamelin, R. 1993. Nomenclatural adjustments in Chinese Boraginaceae. *Novon* 3: 263.
 Riedl, H. 1994. A new species and new combinations of Boraginaceae from China. *Novon* 4: 46-47.